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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/796,587	03/09/2004	Ahmad A. Naiini	339.7807USU	1113
7590 11/14/2005			EXAMINER	
Paul D. Greeley, Esq.			CHU, JOHN S Y	
Ohlandt, Greel	ey, Ruggiero & Perle, L.L.	P.		
One Landmark Square, 10th Floor			ART UNIT	PAPER NUMBER
Stamford, CT 06901-2682			1752	

1752
DATE MAILED: 11/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)			
		10/796,587	NAIINI ET AL.			
	Office Action Summary	Examiner	Art Unit			
		John S. Chu	1752			
Period fo	The MAILING DATE of this communication apports. The ply	pears on the cover sheet with the c	correspondence address			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING DISTRICT OF THE MAILIN	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a Cause the application to become ARANDONE.	N. nely filed the mailing date of this communication D. (35 U.S.C. & 133)			
Status						
1) 又	Responsive to communication(s) filed on 31 O	october 2005				
	This action is FINAL . 2b)⊠ This action is non-final.					
·	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E					
Dispositi	ion of Claims					
4)⊠	Claim(s) 1-79 is/are pending in the application					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	Claim(s) 1-22,24,25,27,28,31-36,38-42,44-53					
6)⊠	6) Claim(s) 23,26,29,30,37,43 and 54 is/are rejected.					
7)	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and/o	r election requirement.				
Applicati	on Papers					
9)	The specification is objected to by the Examine	·Г.				
	The drawing(s) filed on is/are: a) acc		Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).		
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority u	ınder 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign ☑ All b) ☐ Some * c) ☐ None of: 1. ☑ Certified copies of the priority documents		-(d) or (f).			
	2. Certified copies of the priority documents		on No			
	3. Copies of the certified copies of the prior					
	application from the International Bureau		and the state of t			
* S	ee the attached detailed Office action for a list	of the certified copies not receive	d.			
Attachment	(s)					
1) 🔲 Notice	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			
	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te			
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	5) Notice of Informal Pa	atent Application (PTO-152)			
S Patent and To	1.00					

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DETAILED ACTION

This Office action is in response to the arguments filed October 31, 2005.

1. Claims 23, 26, 29, 30, 37, 43 and 54 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. The recited scope of claim 12 is drawn to Markush language wherein the recited species are selected from the listed of structure I and structure III, however claim 23 fails to further limit the recited scope of claim 12 by confusing the scope and reciting that the polymer in the photosensitive composition is a mixture of polymers of structure I and III, thus going against the intended scope for the Markush language of claim 12. Correction is necessary to clarify the scope.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 23, 26, 29, 30, 37, 43 and 54 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The recited scope of claim 12 is drawn to Markush language wherein the recited species are selected from the list of structure I and structure III, however claim 23 fails to further limit the recited scope of claim 12 by confusing the scope and reciting that the polymer in the photosensitive composition is a mixture of polymers of structure I and III, thus going against the

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intended scope of the Markush language in claim 12. Correction is necessary to clarify the scope.

3. Claims 1-22, 24, 25, 27, 28, 31-36, 38-42 and 44-53, 55-79 are allowed.

None of the prior art references of record disclose the recited end-capped polybenzoxazole precursor having the formula of structure I having photosensitive groups defined as D condensed at the hydroxyl position in a composition with a photosensitive compound (b) and a solvent (c). The claims further define the preferred photosensitive naphthoquinone diazide compound for component (b) to have a phenolic backbone structure of formula V and VI as seen in claim 12. The closest prior art reference made of record is to TAKAHASHI et al (6,376,151) which discloses the use of the following compound having the structure of the photosensitive component. Here applicants have defined the difference between the interpretation of a alkyl substituted phenylene which was the interpretation by the Office form the claimed phenyl substituted alkyl group defined for variable R⁵. The examiner concurs with the definition and interpretation as described by applicant in the Remarks of October 31, 2005, pp. 2-5.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Chu whose telephone number is (571) 272-1329. The examiner can normally be reached on Monday - Friday from 9:30 am to 6:00 pm.

The fax phone number for the USPTO is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-1700.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PMR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jøhn S. Chu

Primary Examiner, Group 1700

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J.Chu November 9, 2005